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### 1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

### 2 [Exploiting perception in high-fidelity virtual environments: Exploiting perception in high-fidelity virtual environments](#)

**Additional presentations from the 24th course are available on the citation page**

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez  
July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**

Publisher: ACM Press

Full text available: [pdf\(5.07 MB\)](#) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques in collaboration, graphical, auditory, and haptic rendering. We aim to show how human perception is exploited to achieve realism in high fidelity environments within the constraints of available finite computational resources. In this course w ...

**Keywords:** collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

### 3 [Facial modeling and animation](#)

Jörg Haber, Demetri Terzopoulos  
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(18.15 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

#### 4 Projectors: advanced graphics and vision techniques



Ramesh Raskar

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(6.53 MB) Additional Information: [full citation](#)



#### 5 Cryptography and data security

Dorothy Elizabeth Robling Denning  
January 1982 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(19.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



#### **From the Preface (See Front Matter for full Preface)**

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

#### 6 Seeing, hearing, and touching: putting it all together



Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink  
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(20.64 MB) Additional Information: [full citation](#)



#### 7 Special issue: AI in engineering



D. Sriram, R. Joobbanai  
April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: [full citation](#), [abstract](#)



The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

#### 8 ARIES: a transaction recovery method supporting fine-granularity locking and partial rollbacks using write-ahead logging



C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz  
March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(5.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXODUS and Gamma d ...

**Keywords:** buffer management, latching, locking, space management, write-ahead logging

**9 Final report of the GSPC state-of-the-art subcommittee**

 R. H. Ewald, R. Fryer  
June 1978 **ACM SIGGRAPH Computer Graphics**, Volume 12 Issue 1-2

**Publisher:** ACM Press

Full text available:  pdf(7.85 MB) Additional Information: [full citation](#), [abstract](#)

This paper presents the final report of the ACM/SIGGRAPH Graphics Standards Planning Committee (GSPC) State-of-the-Art Subcommittee. This group's charter was to compare existing vector-oriented graphics packages to determine their similarities and differences. Eight graphics packages and the GSPC "Core System" were selected for review.

**10 GPGPU: general purpose computation on graphics hardware**

 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn  
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

**Publisher:** ACM Press

Full text available:  pdf(63.03 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

**11 The FINITE STRING Newsletter: Abstracts of current literature**

Computational Linguistics Staff  
January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

**Publisher:** MIT Press

Full text available:  pdf(6.15 MB)  Additional Information: [full citation](#)  
[Publisher Site](#)

**12 Final report of the ANSI/X3/SPARC DBS-SG relational database task group**

 July 1982 **ACM SIGMOD Record**, Volume 12 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(4.69 MB) Additional Information: [full citation](#), [citations](#)

**13 Computation: finite and infinite machines**

Marvin L. Minsky  
January 1967 Book

**Publisher:** Prentice-Hall, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**From the Preface (See Front Matter for full Preface)**

Man has within a single generation found himself sharing the world with a strange new species: the computers and computer-like machines. Neither history, nor philosophy, nor common sense will tell us how these machines will affect us, for they do not do "work" as did machines of the Industrial Revolution. Instead of dealing with materials or energy, we are told that they handle "control" and "information" and even "intellectua ..."

#### 14 Interactive Editing Systems: Part II

 Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(9.17 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 15 An open-source CVE for programming education: a case study: An open-source CVE

 for programming education: a case study

Andrew M. Phelps, Christopher A. Egert, Kevin J. Bierre, David M. Parks

July 2005 **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**

**Publisher:** ACM Press

Full text available:  pdf(7.92 MB)

Additional Information: [full citation](#), [references](#)

#### 16 Bugs as deviant behavior: a general approach to inferring errors in systems code

 Dawson Engler, David Yu Chen, Seth Hallem, Andy Chou, Benjamin Chelf

October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles SOSP '01**, Volume 35 Issue 5

**Publisher:** ACM Press

Full text available:  pdf(1.53 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A major obstacle to finding program errors in a real system is knowing what correctness rules the system must obey. These rules are often undocumented or specified in an ad hoc manner. This paper demonstrates techniques that automatically extract such checking information from the source code itself, rather than the programmer, thereby avoiding the need for a priori knowledge of system rules. The cornerstone of our approach is inferring programmer "beliefs" that we then cross-check for contradict ...

#### 17 Speculative execution in a distributed file system

 Edmund B. Nightingale, Peter M. Chen, Jason Flinn

October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5

**Publisher:** ACM Press

Full text available:  pdf(305.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Speculator provides Linux kernel support for speculative execution. It allows multiple processes to share speculative state by tracking causal dependencies propagated through inter-process communication. It guarantees correct execution by preventing speculative processes from externalizing output, e.g., sending a network message or writing to the screen, until the speculations on which that output depends have proven to be correct. Speculator improves the performance of distributed file systems ...

**Keywords:** causality, distributed file systems, speculative execution

#### 18 Operating systems for sensor networks: Design and implementation of a single system image operating system for ad hoc networks

 Hongzhou Liu, Tom Roeder, Kevin Walsh, Rimon Barr, Emin Gün Sirer

**June 2005 Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05****Publisher:** ACM PressFull text available:  [pdf\(261.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In this paper, we describe the design and implementation of a distributed operating system for ad hoc networks. Our system simplifies the programming of ad hoc networks and extends total system lifetime by making the entire network appear as a single virtual machine. It automatically and transparently partitions applications into components and dynamically finds them a placement on nodes within the network to reduce energy consumption and to increase system longevity. This paper describes our pr ...

**19 Speculative execution in a distributed file system**

Edmund B. Nightingale, Peter M. Chen, Jason Flinn

November 2006 **ACM Transactions on Computer Systems (TOCS)**, Volume 24 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(1.11 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Speculator provides Linux kernel support for speculative execution. It allows multiple processes to share speculative state by tracking causal dependencies propagated through interprocess communication. It guarantees correct execution by preventing speculative processes from externalizing output, for example, sending a network message or writing to the screen, until the speculations on which that output depends have proven to be correct. Speculator improves the performance of distributed file sy ...

**Keywords:** Distributed file systems, causality, speculative execution**20 Commercially viable active networking**

Stuart Eichert, Osman N. Ertugay, Dan Nessett, Suresh Vobbisisetty

January 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(1.52 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Active Networking is a new technology receiving significant attention from the research community. To this point, however, it has not been examined from the perspective of commercial viability. This paper presents an analysis of active networking issues with a view to its possible uses in a commercial environment. It then describes a prototype system built to address these issues.

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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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1. Extraction of nonlinear parameters of dispersive avalanche photodiode using pulsed RF measurement and quasi-DC optical excitation  
 Ghose, A.; Bunz, B.; Weide, J.; Kompa, G.;  
Microwave Theory and Techniques, IEEE Transactions on  
 Volume 53, Issue 6, Part 2, June 2005 Page(s):2082 - 2087  
 Digital Object Identifier 10.1109/TMTT.2005.848808  
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2. A 3-D marker-free system for the analysis of movement disabilities - an application to the legs  
 Marzani, F.; Calais, E.; Legrand, L.;  
Information Technology in Biomedicine, IEEE Transactions on  
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 Digital Object Identifier 10.1109/4233.908371  
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 Joe-Air Jiang; Ying-Hong Lin; Jun-Zhe Yang; Tong-Ming Too; Chih-Wen Liu;  
Power Delivery, IEEE Transactions on  
 Volume 15, Issue 4, Oct. 2000 Page(s):1136 - 1146  
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 Ghose, A.; Bunz, B.; Weide, J.; Kompa, G.;  
Telecommunications in Modern Satellite, Cable and Broadcasting Services, 2005. 7th International Conference on  
 Volume 2, 28-30 Sept. 2005 Page(s):373 - 376 vol. 2  
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 Hoffman, G.S.; Miller, M.M.; Kabrisky, M.; Maybeck, P.S.; Raquet, J.F.;  
Decision and Control, 2002, Proceedings of the 41st IEEE Conference on  
 Volume 3, 10-13 Dec. 2002 Page(s):2524 - 2529 vol.3  
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6. **Fine real-time processing in distributed systems**  
Yakoh, T.; Sato, H.; Aoyama, T.;  
[Factory Communication Systems, 2000. Proceedings, 2000 IEEE International Workshop on](#)  
6-8 Sept. 2000 Page(s):135 - 142  
Digital Object Identifier 10.1109/WFCS.2000.882543  
[AbstractPlus](#) | Full Text: [PDF\(748 KB\)](#) | IEEE CNF  
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7. **All-optical clock extraction performance of a mode-locked diode laser with a novel external-cavity configuration**  
Shimizu, T.; Kurita, H.; Yokoyama, H.;  
[Lasers and Electro-Optics Society Annual Meeting, 1998. LEOS '98. IEEE](#)  
Volume 1, 1-4 Dec. 1998 Page(s):8 - 9 vol.1  
Digital Object Identifier 10.1109/LEOS.1998.737706  
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8. **The Interferometric frequency measurement with variable acoustooptic delay line**  
Kludzin, V.V.; Kulakov, S.V.; Molotok, V.V.; Reslenev, L.N.;  
[Frequency and Time Forum, 1999 and the IEEE International Frequency Control Symposium, 1999., Proceedings of the 1999 Joint Meeting of the European](#)  
Volume 2, 13-16 April 1999 Page(s):1037 - 1040 vol.2  
Digital Object Identifier 10.1109/FREQ.1999.841482  
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9. **A BiCMOS wireless interface chip for micromachined stimulating microprobes**  
Ghovanloo, M.; Beach, K.; Wise, K.D.; Najafi, K.;  
[Microtechnologies in Medicine & Biology 2nd Annual International IEEE-EMB Special Topic Conference on](#)  
2-4 May 2002 Page(s):277 - 282  
Digital Object Identifier 10.1109/MMB.2002.1002330  
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For instance Oracle **roll-back** logs should not be on the same physical disk ... The choice of the 'other' SCSI ID is dependant on what other **devices** are in ...

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### Hybrid replication scheme with data and actions for wireless ...

A method is provided to **synchronize** a local data storage on a wireless ... (2) If the syncObject is listed as a "New Match," this object's **ID** was not ...

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### Direct sequence CDMA device and method for using the same - US ...

More specifically, each PN **Roll** may appear to be the beginning of the **sync** channel super frame. This process described above is carried out until a positive ...

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the **device** and what data the applications will require, ..... **Roll-back**: Protects data integrity when **synchronization** was not completed, by ...

[www.mobileinfo.com/WhitePapers/XcelleNet\\_HH%20Strategy%20White%20Paper.pdf](http://www.mobileinfo.com/WhitePapers/XcelleNet_HH%20Strategy%20White%20Paper.pdf) - [Similar pages](#)

### Hybrid replication scheme with data and actions for wireless ...

generating on a wireless computing **device** a **synchronization** request message, ..... then control proceeds from step 517 to a **Rollback** Transaction step 521 ...

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### Direct sequence CDMA device and method for using the same - Patent ...

A **device** for providing a **synchronization** marker on a frame-based ..... By locating the beginning of the PN sequence (PN **roll**), a subscriber unit that ...

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All **rollback synchronization** is completely invisible to the user, ... **extract**. A **rollback** is an indication that some processor performed ...

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### Resource Manager Essentials Applications

Find out-of-**sync** configurations. Determine whether a **device's** startup and ..... Undo the upgrade and **roll back** to the previous image, after you have ...

[www.cisco.com/univercd/cc/td/doc/product/rtrmgmt/cw2000/cw2000e/e\\_3\\_x3\\_5/u\\_guide/ug\\_eapps.htm](http://www.cisco.com/univercd/cc/td/doc/product/rtrmgmt/cw2000/cw2000e/e_3_x3_5/u_guide/ug_eapps.htm) - 251k - [Cached](#) - [Similar pages](#)

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Simple differentiating circuit to **extract** line **sync** pulses. Figure 3. .... with **ID** text and two black signals; all outputs have independent timing ...

[www.tek.com/Measurement/App\\_Notes/20\\_14229/eng/20W\\_14229\\_0.pdf](http://www.tek.com/Measurement/App_Notes/20_14229/eng/20W_14229_0.pdf) - [Similar pages](#)

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of **mobile devices** that **synchronize** their data with a desktop computer. .... is aborted by the OR, the FE must then **roll back** any of the changes made by the ...

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L2	11	@ad<"20010328" and ((id or identif\$3) adj3 (store\$3 near local\$3)) and ((wireless adj device) or handheld)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/12 17:25
L3	36	(pda or mobile or (personal adj digital adj assistant)) same synchroni\$4 same server same extract\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/12 17:26
L4	5	@ad<"20010328" and (pda or mobile or (personal adj digital adj assistant)) same synchroni\$4 same server same extract\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/12 17:26
S52 9	0	(synchroniz\$3 near3 (id or identify) near3 store\$3) same local\$3 same computer\$3	USPAT	OR	ON	2006/06/20 15:08
S53 0	1	(synchroniz\$3 same (id or identify) near3 store\$3) same local\$3 same computer\$3	USPAT	OR	ON	2006/06/20 15:15
S53 1	0	synchroniz\$3 same (id or identify) same (store\$3 near local\$3) same computer\$3	USPAT	OR	ON	2006/06/20 15:16
S53 2	103	synchroniz\$3 same (id or identify) and (store\$3 near local\$3) same computer\$3	USPAT	OR	ON	2006/06/20 15:17
S53 3	2	synchroniz\$3 same (id or identify) same (store\$3 near3 local\$3) same computer\$3	USPAT	OR	ON	2006/06/20 15:22
S53 4	0	(synchroniz\$3 near (id or identify)) same (store\$3 near3 local\$3) same computer\$3	USPAT	OR	ON	2006/06/20 15:23
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S53 9	192	(synchroniz\$3 near (id or identify))	USPAT	OR	ON	2006/06/20 15:29
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S54 5	17453	(synchroniz\$3 adj (id or identif\$3)) asame (store\$3 near3 local\$3)	USPAT	OR	ON	2006/06/20 15:35
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S54 8	107	(synchroniz\$3 same (id or identif\$3)) same(store\$3 same local\$3)	USPAT	OR	ON	2006/06/20 15:40
S54 9	16	(synchroniz\$3 near5 (id or identif\$3)) same(store\$3 same local\$3)	USPAT	OR	ON	2006/06/20 15:41
S55 0	7	(synchroniz\$3 near5 (id or identif\$3)) same(store\$3 near5 local\$3)	USPAT	OR	ON	2006/06/20 15:51
S55 1	540	(id or identif\$4) near3 (store\$3 near5 local\$3)	USPAT	OR	ON	2006/06/20 16:19
S55 2	273	(id or identif\$4) near (store\$3 near5 local\$3)	USPAT	OR	ON	2006/06/20 16:19
S55 3	73	(id or identif\$4) near (store\$3 near local\$3)	USPAT	OR	ON	2006/06/20 16:19
S55 4	47	(id or identif\$4) adj (store\$3 adj local\$3)	USPAT	OR	ON	2006/06/20 16:19
S55 5	5	(id or identif\$4) adj (store\$3 adj local\$3) same computer	USPAT	OR	ON	2006/06/20 16:20

## EAST Search History

S55 6	4	@ad<"20010328" and(id or identif\$4) adj (store\$3 adj local\$3) same computer	USPAT	OR	ON	2006/06/20 16:40
S55 7	0	@ad<"20010328" and(id or identif\$4) adj (store\$3 adj local\$3) same (wireless adj device)	USPAT	OR	ON	2006/06/20 16:41
S55 8	0	@ad<"20010328" and(id or identif\$4) adj (store\$3 adj local\$3) same ((wireless adj device\$1) or pda or handheld)	USPAT	OR	ON	2006/06/20 16:41
S55 9	7	@ad<"20010328" and(id or identif\$4) adj (store\$3 adj local\$3) and ((wireless adj device\$1) or pda or handheld)	USPAT	OR	ON	2006/06/20 16:41
S56 0	8	(synchroniz\$3 adj (id or identif\$3)) and (store\$3 near local\$3)	USPAT	OR	ON	2006/06/22 10:47
S56 1	3	(synchroniz\$3 adj (id or identif\$3)) and (store\$3 near local\$3) same ((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 10:48
S56 2	2	@ad<"20010328" and (synchroniz\$3 adj (id or identif\$3)) and (store\$3 near local\$3) same ((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 10:51
S56 3	0	@ad<"20010328" and (id or identif\$3) near (store\$3 near local\$3) same ((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 10:51
S56 4	5	@ad<"20010328" and (id or identif\$3) same (store\$3 near local\$3) same ((wireless adj device) or handheld).	USPAT	OR	ON	2006/06/22 10:53
S56 5	2	@ad<"20010328" and (id or identif\$3) adj (store\$3 near local\$3) and ((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 10:53
S56 6	2	@ad<"20010328" and ((id or identif\$3) adj (store\$3 near local\$3)) and ((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 10:54
S56 7	4	@ad<"20010328" and ((id or identif\$3) adj3 (store\$3 near local\$3)) and ((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 10:55
S56 8	4	@ad<"20010328" and ((id or identif\$3) adj5 (store\$3 adj local\$3)) and ((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 10:55

## EAST Search History

S56 9	0	@ad<"20010328" and ((id or identif\$3) adj5 (store\$3 adj local\$3)) same((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 10:55
S57 0	1	@ad<"20010328" and ((id or identif\$3) with (store\$3 adj local\$3)) same((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 10:55
S57 1	5	@ad<"20010328" and ((id or identif\$3) same (store\$3 adj local\$3)) same((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 11:02
S57 2	1047	@ad<"20010328" and ((id or identif\$3) same (store\$3 adj local\$3))	USPAT	OR	ON	2006/06/22 11:02
S57 3	43	@ad<"20010328" and ((id or identif\$3) near (store\$3 adj local\$3))	USPAT	OR	ON	2006/06/22 11:03
S57 4	0	@ad<"20010328" and ((id or identif\$3) near (store\$3 adj local\$3)) same((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 11:03
S57 5	2	@ad<"20010328" and ((id or identif\$3) near (store\$3 adj local\$3)) and((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 11:03
S57 6	4	@ad<"20010328" and ((id or identif\$3) near3 (store\$3 adj local\$3)) and((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 11:04
S57 7	3	@ad<"20010328" and ((id or identif\$3) near3 store\$3 adj local\$3) and((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 11:05
S57 8	3	@ad<"20010328" and ((id or identif\$4) near3 store\$3 adj local\$3) and((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 11:05
S57 9	0	@ad<"20010328" and ((id or identif\$4) near3 store\$3 adj local\$3) same((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 11:05
S58 0	6	@ad<"20010328" and (id or identif\$4) same (store\$3 adj local\$3) same((wireless adj device) or handheld)	USPAT	OR	ON	2006/06/22 11:31
S58 1	1	("6839744").PN.	USPAT	OR	OFF	2006/06/22 16:55

## EAST Search History

S58 2	1	("5,319,455").PN.	USPAT	OR	OFF	2006/06/22 16:55
S58 3	1289	(pda or mobile or (personal adj digital adj assistant)) same synchroni\$4 same server	US-PGPUB; USPAT	OR	ON	2007/01/16 17:10
S58 4	29	(pda or mobile or (personal adj digital adj assistant)) same synchroni\$4 same server same extract\$4	US-PGPUB; USPAT	OR	ON	2007/01/16 17:12
S58 5	3	@ad<"20010328" and (pda or mobile or (personal adj digital adj assistant)) same synchroni\$4 same server same extract\$4	US-PGPUB; USPAT	OR	ON	2007/01/16 17:12
S58 6	1	("6721271").PN.	USPAT	OR	OFF	2007/01/21 11:47